

**Product Name:** Octave 80 High CAC  
**Manufacturer:** OWA USA Corporation

Section 09 51 00 (09510) – Acoustic Ceilings

Part 1 – General

- Related Documents
- A. Drawings and general provisions of the contract apply to this section. This includes General and Supplementary Conditions of Division 01 (1) Specification Sections.
- Summary
  - Section includes acoustic panels
  - References
  - *ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method*
  - *ASTM C636 – Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings*
  - *ASTM E84 – Test Method for Surface Burning Characteristics of Building Materials*
  - *ASTM E795 – Practice for Mounting Test Specimens During Sound Absorption Tests*
  - *ASTM E1111 – Test Method for Measuring Interzone Attenuation of Ceiling Systems*
  - *ASTM E1264 – Classification for Acoustic Ceiling Products*
  - *ASTM E1414 – Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum*
  - *ISO 7744-2 – Paints and varnishes – colorimetry part 2: colour measurement*
  - *ISO 7744-3 -Paints and varnishes – colorimetry part 3: calculation of colour differences*
  - *ISO 14024 Environmental Labels and Declarations - Type I Environmental Labeling - Principles and Procedures*
  - *ISO 14025 - Environmental Labels and Declarations -- Type III Environmental Declarations -- Principles and Procedures*
  - *CISCA (Ceilings & Interior Systems Construction Association) – Ceilings Systems Handbook*
  - *CISCA (Ceilings & Interior Systems Construction Association) – Acoustical Ceilings – Use and Practice*
  - *California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 (Emission testing method for CA Specification 01350)*
  - *Health Product Declaration Standard v2.1.1 – <https://www.hpd-collaborative.org/>*
  - *French VOC Label - Émissions dans l'air intérieur*
  - Submittals
  - Product Data
  - Submit manufacturer's published technical information for each product indicated
  - Shop Drawings
  - Submit reflected ceiling plans drawn to scale prescribed by Architect
    - Include coordinated penetrations and ceiling-mounted items
    - Include any necessary details or drawings from the manufacturer regarding recommended installation
  - Samples
  - Submit representative manufacturer's sample of each panel indicated

- Submit representative manufacturer's sample of each suspension member indicated
- Certifications
- **Provide written certification that products submitted meet or exceed all specified requirements**
  - Quality Assurance
- Source Limitations
- Acoustic Ceiling Panel
  - Obtain each type through one source from a single manufacturer
- Installer Qualifications
- Must be experienced in the installation of systems similar to those specified herein
- Surface Burning Characteristics
- ASTM E1264
  - Class A
- ASTM E84
  - Flame spread of 25 or less
  - Smoke developed of 50 or less
- Delivery, Storage and Handling
- Delivery of acoustic ceiling products will be in the original unopened packages with the manufacturer's label intact
- Handling and storage should be in accordance with the manufacturer's Material Safety Data Sheets (MSDS)
- Individual panels should be handled carefully to avoid damage
- Project Conditions
- Environmental Limitations
- Install acoustic panels only in conditions that are within the manufacturer's published limits for temperature and humidity
- Areas receiving ceiling panels should be free of construction debris and dust
- Mechanical, sprinkler and electrical trades shall have completed their work above the ceiling structure prior to commencement of the ceiling panel installation
- Coordination
- Coordinate the installation of the acoustic ceiling system with any and all trades whose work is impacted by that installation
- Extra Materials
- Provide extra materials in the manufacturer's unopened packaging, with the manufacturer's label intact, as detailed below
- Acoustic Panels – Minimum [5%] of each type installed

## **Part 2 - Products**

### 2.1 Manufacturer

- OWA USA Corporation
- Address: 131 Ridge Road, Unit 1N, Munster, IN 46321
- Telephone: 800-487-4308
- Web: [www.owa-ceilings.com](http://www.owa-ceilings.com)

## 2.2 Acoustic Ceiling Units

- Acoustical Ceiling Panel (ACP) – [Type ACP-1]
- Name: Octave 80 High CAC
- Physical Characteristics
  - Type: IV (per ASTM E1264)
  - Form: 2 (per ASTM E1264)
  - Pattern: E (per ASTM E1264)
  - Size: 24"x24", 24"x48", 24"x60", 24"x72"
  - Thickness: 3/4"
  - Edges: Square, Reveal for 15/16" grid, Reveal for 9/16" grid
  - Finished Surface: Scrim laminated
  - Finished Surface Color: White
  - Core Composition: Wet-felted mineral fiber
- Performance Criteria
  - Noise Reduction Coefficient (NRC)
    - 0.80
  - Light Reflectance (LR)
    - 0.87
  - Ceiling Attenuation Class (CAC)
    - 37 dB
  - Humidity Resistance (according to manufacturers certification)
    - Warranted to withstand relative humidity of up to 95% without sagging, warping or delaminating for 30-years
  - Flame Spread Classification per ASTM E84: Class A
- Independent Environmental Certifications
  - VOC content
    - Third-party certification of compliance
      - Per California Department of Public Health (CDPH) - Standard Method Version 1.1, February 2010
  - French VOC Label
    - Émissions dans l'air intérieur
  - Health Product Declaration
    - Per Health Product Declaration Standard v2.1.1
      - <https://www.hpd-collaborative.org/>

## Part 3 – Execution

### 3.1 Examination

- Ascertain acceptability of substrates and building conditions under which the ceiling system is to be installed. Do not proceed with the installation until any and all unacceptable conditions have been rectified.

### 3.2 Preparation

- Unless otherwise directed by the reflected ceiling plan, measure the space in which the ceiling system is to be installed and establish a layout that balances border widths at opposite ends of the ceiling.
- When possible, coordinate the ceiling system layout to avoid the use of less than half width

panels at the perimeter.

### 3.3 Installation

- Install the ceiling system in accordance with the following:
- Manufacturer's printed instructions
- ASTM C636
- Ceilings & Interior Systems Construction Association (CISCA) recommendations
- Applicable local code requirements
- Approved shop drawings

### 3.4 Maintenance

- Replace any and all damaged ceiling system components
- Clean any and all exposed surfaces in accordance with the manufacturer's printed instructions

END OF SECTION

**OWA USA Corporation shall be held harmless for any damages resulting from the use of this specification guide**